

## **Detailed Data Tables: Men Who Have Sex with Men (MSM)**

### **Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data**

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases who were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2012, this resulted in the removal of 2,924 HIV/AIDS cases, of which 808 have died and 2,116 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS surveillance system. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the Massachusetts Department of Public Health (MDPH) HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

**Table 1. People diagnosed with HIV infection by gender and exposure mode: Massachusetts<sup>1</sup>, 2008–2010<sup>2</sup>**

Exposure Mode:	Male		Female		Total	
	N	%	N	%	N	%
Male-to-male sex (MSM)	789	54%	N/A	N/A	789	40%
Injection drug use (IDU)	122	8%	65	12%	187	9%
MSM/IDU	56	4%	N/A	N/A	56	3%
Heterosexual sex	77	5%	174	32%	251	13%
Other	12	1%	7	1%	19	1%
Total undetermined/other	397	27%	295	54%	692	35%
• Pres. HTSX <sup>3</sup>	N/A	N/A	219	40%	219	11%
• Undetermined <sup>4</sup>	397	27%	76	14%	473	24%
<b>Total</b>	<b>1,453</b>	<b>100%</b>	<b>541</b>	<b>100%</b>	<b>1,994</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>4</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

Pres. HTSX = Presumed Heterosexual Sex; N/A = Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

*Note: The category of “presumed heterosexual” is used in Massachusetts to re-assign females who are reported with an exposure of heterosexual sex, but only with a partner of unknown HIV status or behavioral risk. Massachusetts uses the category of presumed heterosexual to distinguish these female cases from other undetermined cases about which we know less. Prior to January 1, 2011, the presumed heterosexual category was also used to report HIV data in males. The rationale for the application of the presumed heterosexual exposure mode category to females only has been addressed in the MDPH OHA report “Intersecting Risks: HIV Infection among Heterosexual Women and Men in Massachusetts.” (2010) [http://www.mass.gov/Eeohhs2/docs/dph/aids/intersecting\\_risks.pdf](http://www.mass.gov/Eeohhs2/docs/dph/aids/intersecting_risks.pdf). Nationally, the Centers for Disease Control and Prevention categorize “presumed heterosexual” cases as “no identified risk” (NIR). As such, comparisons of the presumed heterosexual category cannot be made to national data. Caution should be used in interpreting data for presumed heterosexual, as it is still not clear what the exposure risk was for females in this category. Although a person may not report other risk behaviors, such as injection drug use to a health care provider, it does not exclude the possibility that an individual has experienced these other risks. There are many barriers to disclosing HIV risk behaviors in the health care setting such as a limited patient-provider relationship or stigma.*

**Table 2. People living with HIV/AIDS on December 31, 2011 by gender and exposure mode: Massachusetts<sup>1</sup>**

Exposure Mode:	Male		Female		Total	
	N	%	N	%	N	%
Male-to-male sex (MSM)	6,498	50%	N/A	N/A	6,498	36%
Injection drug use (IDU)	2,562	20%	1,301	25%	3,863	21%
MSM/IDU	605	5%	N/A	N/A	605	3%
Heterosexual sex	769	6%	1,844	35%	2,613	14%
Other	231	2%	189	4%	420	2%
Total undetermined/other	2,252	17%	1,919	37%	4,171	23%
• Pres. HTSX <sup>2</sup>	N/A	N/A	1,520	29%	1,520	8%
• Undetermined <sup>3</sup>	2,252	17%	399	8%	2,651	15%
<b>Total</b>	<b>12,917</b>	<b>100%</b>	<b>5,253</b>	<b>100%</b>	<b>18,170</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

Pres. HTSX = Presumed Heterosexual Sex; N/A = Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

**Table 3. Percent of people diagnosed with HIV infection by Health Service Region (HSR)<sup>1</sup> and exposure mode: Massachusetts<sup>2</sup>, 2008–2010<sup>3</sup>**

HSR	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>4</sup>		Undet. <sup>5</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
Boston	259	45%	38	7%	15	3%	63	11%	7	1%	61	11%	127	22%	570
Central	47	27%	20	12%	-- <sup>7</sup>	-- <sup>7</sup>	32	19%	-- <sup>7</sup>	-- <sup>7</sup>	28	16%	36	21%	172
Metrowest	151	46%	17	5%	-- <sup>7</sup>	-- <sup>7</sup>	32	10%	-- <sup>7</sup>	-- <sup>7</sup>	37	11%	78	24%	330
Northeast	119	34%	21	6%	-- <sup>7</sup>	-- <sup>7</sup>	46	13%	-- <sup>7</sup>	-- <sup>7</sup>	44	13%	110	31%	351
Southeast	122	42%	23	8%	9	3%	44	15%	0	0%	29	10%	61	21%	288
Western	81	39%	32	15%	-- <sup>7</sup>	-- <sup>7</sup>	25	12%	-- <sup>7</sup>	-- <sup>7</sup>	19	9%	49	23%	210
Prison <sup>6</sup>	10	14%	36	49%	5	7%	9	12%	-- <sup>7</sup>	-- <sup>7</sup>	-- <sup>7</sup>	-- <sup>7</sup>	12	16%	73
<b>Total</b>	<b>789</b>	<b>40%</b>	<b>187</b>	<b>9%</b>	<b>56</b>	<b>3%</b>	<b>251</b>	<b>13%</b>	<b>19</b>	<b>1%</b>	<b>219</b>	<b>11%</b>	<b>473</b>	<b>24%</b>	<b>1994</b>

<sup>1</sup> Reflects the health service region of a person's residence at the time of report (not necessarily current residence). See Epidemiologic Profile General Appendices, Health Service Region Maps, available at [http://www.mass.gov/dph/aids/research/profile2005/app5\\_hrs\\_maps.pdf](http://www.mass.gov/dph/aids/research/profile2005/app5_hrs_maps.pdf) for configuration of health service regions.

<sup>2</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>3</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>4</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>5</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

<sup>6</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility

<sup>7</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex; Undet. = Undetermined

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/12

**Table 4. Percentage distribution of people living with HIV/AIDS on December 31, 2011 by Health Service Region (HSR)<sup>1</sup> and exposure mode: Massachusetts<sup>2</sup>**

HSR	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>3</sup>		Undet. <sup>4</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
Boston	2,714	47%	787	14%	190	3%	722	13%	110	2%	445	8%	755	13%	5,723
Central	373	23%	465	29%	47	3%	300	19%	47	3%	167	10%	196	12%	1,595
Metrowest	1,004	39%	316	12%	73	3%	350	14%	70	3%	269	11%	476	19%	2,558
Northeast	870	31%	519	18%	81	3%	441	16%	72	3%	306	11%	541	19%	2,830
Southeast	974	39%	544	22%	80	3%	377	15%	58	2%	164	7%	305	12%	2,502
Western	495	25%	595	30%	67	3%	367	18%	63	3%	159	8%	262	13%	2,008
Prison <sup>5</sup>	68	7%	636	67%	67	7%	56	6%	0	0%	10	1%	116	12%	953
<b>Total</b>	<b>6,498</b>	<b>36%</b>	<b>3,863</b>	<b>21%</b>	<b>605</b>	<b>3%</b>	<b>2,613</b>	<b>14%</b>	<b>420</b>	<b>2%</b>	<b>1,520</b>	<b>8%</b>	<b>2,651</b>	<b>15%</b>	<b>18,170</b>

<sup>1</sup> Reflects the health service region of a person's residence at the time of report (not necessarily current residence). See Epidemiologic Profile General Appendices, Health Service Region Maps, available at [http://www.mass.gov/dph/aids/research/profile2005/app5\\_hrs\\_maps.pdf](http://www.mass.gov/dph/aids/research/profile2005/app5_hrs_maps.pdf) for configuration of health service regions.

<sup>2</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>3</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>4</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

<sup>5</sup> HSRs are regions defined geographically to facilitate targeted health service planning. While prisons do not constitute an HSR, the prison population is presented separately in this analysis because of its unique service planning needs. Prisons include only persons who were diagnosed with HIV/AIDS while in a correctional facility. These data do not reflect current incarceration status.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/12

**Table 5. Ten cities/towns<sup>1</sup> in Massachusetts with the highest proportion of Male-to-Male Sex (MSM) as primary reported exposure mode among HIV infection diagnoses (HIV Dx): 2008–2010<sup>2</sup>**

Rank	City/Town	Number of HIV Dx among MSM	Percent of Total HIV Dx
1	Provincetown	34	94.4%
2	Everett	12	50.0%
3	Somerville	16	48.5%
4	Cambridge	25	48.1%
5	Quincy	10	47.6%
6	Boston	244	45.5%
7	Lynn	13	31.0%
8	Springfield	29	29.9%
9	Malden	10	29.4%
10	Waltham	10	27.0%

<sup>1</sup> Among cities/towns with over 20 reported HIV Infection diagnoses in the years 2008–2010. Note: reflects the city/town of a person's residence at the time of report (not necessarily current residence). People diagnosed while at a correctional facility are not included.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data as of 1/1/12

**Table 6. Males diagnosed with HIV infection by exposure mode and year of diagnosis: Massachusetts<sup>1</sup>, 2001–2010<sup>2</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Undeter- mined <sup>3</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N
2001	304	44%	130	19%	30	4%	71	10%	6	1%	145	21%	686
2002	324	45%	133	19%	29	4%	60	8%	5	1%	163	23%	714
2003	307	49%	96	15%	29	5%	43	7%	10	2%	144	23%	629
2004	289	46%	99	16%	21	3%	48	8%	5	1%	172	27%	634
2005	336	53%	87	14%	23	4%	32	5%	0	0%	159	25%	637
2006	330	58%	50	9%	-- <sup>4</sup>	-- <sup>4</sup>	42	7%	-- <sup>4</sup>	-- <sup>4</sup>	125	22%	567
2007	268	54%	56	11%	-- <sup>4</sup>	-- <sup>4</sup>	26	5%	-- <sup>4</sup>	-- <sup>4</sup>	125	25%	497
2008	276	54%	44	9%	26	5%	27	5%	7	1%	127	25%	507
2009	278	57%	33	7%	-- <sup>4</sup>	-- <sup>4</sup>	26	5%	-- <sup>4</sup>	-- <sup>4</sup>	135	28%	489
2010	235	51%	45	10%	-- <sup>4</sup>	-- <sup>4</sup>	24	5%	-- <sup>4</sup>	-- <sup>4</sup>	135	30%	457

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex  
Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/12

**Table 7. Males diagnosed with HIV infection by exposure mode and race/ethnicity: Massachusetts<sup>1</sup>, 2008–2010<sup>2</sup>**

Race/ Ethnicity:	MSM		IDU		MSM/ IDU		HTSX		Other		Undeter- mined <sup>3</sup>	
	N	%	N	%	N	%	N	%	N	%	N	%
White NH	495	63%	29	24%	39	70%	9	12%	0	0%	99	25%
Black NH	121	15%	27	22%	7	13%	36	47%	7	58%	177	45%
Hispanic/Latino	141	18%	63	52%	9	16%	31	40%	5	42%	103	26%
API	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>
Other/Und.	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>
<b>Total</b>	<b>789</b>	<b>100%</b>	<b>122</b>	<b>100%</b>	<b>56</b>	<b>100%</b>	<b>77</b>	<b>100%</b>	<b>12</b>	<b>100%</b>	<b>397</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

NH = Non-Hispanic, API = Asian/Pacific Islander, Und. = Undetermined

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

**Table 8. Males living with HIV/AIDS on December 31, 2011 by exposure mode and race/ethnicity: Massachusetts<sup>1</sup>**

Race/ Ethnicity:	MSM		IDU		MSM/ IDU		HTSX		Other		Undeter- mined <sup>2</sup>	
	N	%	N	%	N	%	N	%	N	%	N	%
White NH	4,623	71%	788	31%	372	61%	144	19%	76	33%	592	26%
Black NH	843	13%	617	24%	107	18%	353	46%	87	38%	1,052	47%
Hispanic/Latino	885	14%	1,137	44%	119	20%	258	34%	67	29%	526	23%
API	122	2%	14	1%	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	71	3%
Other/Und.	25	<1%	6	<1%	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	-- <sup>3</sup>	11	<1%
<b>Total</b>	<b>6,498</b>	<b>100%</b>	<b>2,562</b>	<b>100%</b>	<b>605</b>	<b>100%</b>	<b>769</b>	<b>100%</b>	<b>231</b>	<b>100%</b>	<b>2,252</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>3</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

NH = Non-Hispanic, API = Asian/Pacific Islander, Und. = Undetermined

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12



**Table 9. Males diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts<sup>1</sup>, 2008–2010<sup>2</sup>**

	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
Exposure Mode	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	123	75%	113	66%	99	57%	98	54%	126	56%	118	48%	61	42%	28	41%	23	34%
IDU	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	9	5%	14	8%	20	11%	12	5%	22	9%	23	16%	13	19%	7	10%
MSM/IDU	0	0%	7	4%	11	6%	13	7%	5	3%	8	4%	6	2%	5	3%	0	0%	-- <sup>4</sup>	-- <sup>4</sup>
HTSX	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	8	5%	11	6%	8	4%	14	6%	14	6%	11	8%	-- <sup>4</sup>	-- <sup>4</sup>	6	9%
Other	10	100%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>
Undetermined <sup>3</sup>	0	0%	28	17%	29	17%	37	21%	51	28%	67	30%	84	34%	45	31%	26	38%	30	45%
<b>Total</b>	<b>10</b>	<b>100%</b>	<b>165</b>	<b>100%</b>	<b>170</b>	<b>100%</b>	<b>174</b>	<b>100%</b>	<b>182</b>	<b>100%</b>	<b>227</b>	<b>100%</b>	<b>244</b>	<b>100%</b>	<b>145</b>	<b>100%</b>	<b>69</b>	<b>100%</b>	<b>67</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex;

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

**Table 10. White (non-Hispanic) *males* diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts<sup>1</sup>, 2008–2010<sup>2</sup>**

	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
Exposure Mode	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	51	86%	58	79%	51	73%	66	72%	90	76%	93	72%	47	69%	22	73%	17	53%
IDU	0	0%	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	6	7%	-- <sup>4</sup>	-- <sup>4</sup>	6	5%	7	10%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>
MSM/IDU	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	10	14%	9	13%	5	5%	6	5%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>
HTSX	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>
Other	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Undetermined <sup>3</sup>	0	0%	5	8%	-- <sup>4</sup>	-- <sup>4</sup>	6	9%	15	16%	17	14%	26	20%	11	16%	-- <sup>4</sup>	-- <sup>4</sup>	11	34%
<b>Total</b>	<b>0</b>	<b>0%</b>	<b>59</b>	<b>100%</b>	<b>73</b>	<b>100%</b>	<b>70</b>	<b>100%</b>	<b>92</b>	<b>100%</b>	<b>118</b>	<b>100%</b>	<b>129</b>	<b>100%</b>	<b>68</b>	<b>100%</b>	<b>30</b>	<b>100%</b>	<b>32</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex;

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

**Table 11. Black (non-Hispanic) *males* diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts<sup>1</sup>, 2008–2010<sup>2</sup>**

	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
Exposure Mode	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	36	69%	25	60%	15	41%	8	25%	12	24%	11	19%	9	19%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>
IDU	0	0%	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	6	11%	6	13%	7	25%	-- <sup>4</sup>	-- <sup>4</sup>
MSM/IDU	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	0	0%
HTSX	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	8	22%	-- <sup>4</sup>	-- <sup>4</sup>	6	12%	9	16%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>
Other	7	100%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Undetermined <sup>3</sup>	0	0%	14	27%	13	31%	14	38%	19	59%	28	57%	30	53%	26	55%	19	68%	14	58%
<b>Total</b>	<b>7</b>	<b>100%</b>	<b>52</b>	<b>100%</b>	<b>42</b>	<b>100%</b>	<b>37</b>	<b>100%</b>	<b>32</b>	<b>100%</b>	<b>49</b>	<b>100%</b>	<b>57</b>	<b>100%</b>	<b>47</b>	<b>100%</b>	<b>28</b>	<b>100%</b>	<b>24</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex;

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

**Table 12. Hispanic/Latino *males* diagnosed with HIV infection by age at HIV diagnosis and exposure mode: Massachusetts, 2008–2010**

	<13		13 to 24		25 to 29		30 to 34		35 to 39		40 to 44		45 to 49		50 to 54		55 to 59		60+	
Exposure Mode	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N	%
MSM	0	0%	32	68%	25	52%	25	45%	18	36%	21	40%	11	22%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>
IDU	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	7	15%	9	16%	13	26%	7	13%	10	20%	10	37%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>
MSM/IDU	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	0	0%
HTSX	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	6	13%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	5	9%	-- <sup>4</sup>	-- <sup>4</sup>	6	22%	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>
Other	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	0	0%	0	0%	-- <sup>4</sup>	-- <sup>4</sup>	0	0%	0	0%	0	0%	0	0%
Undetermined <sup>3</sup>	-- <sup>4</sup>	-- <sup>4</sup>	7	15%	10	21%	15	27%	15	30%	19	36%	24	48%	6	22%	-- <sup>4</sup>	-- <sup>4</sup>	5	56%
<b>Total</b>	<b>0</b>	<b>0%</b>	<b>47</b>	<b>100%</b>	<b>48</b>	<b>100%</b>	<b>55</b>	<b>100%</b>	<b>50</b>	<b>100%</b>	<b>53</b>	<b>100%</b>	<b>50</b>	<b>100%</b>	<b>27</b>	<b>100%</b>	<b>10</b>	<b>100%</b>	<b>9</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex;

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

**Table 13. Males diagnosed with HIV infection by mode of exposure and place of birth: Massachusetts<sup>1</sup>, 2008–2010<sup>2</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Undeter- mined <sup>3</sup>	
United States	628	80%	76	62%	48	86%	26	34%	8	67%	203	51%
PR/US Depen. <sup>4</sup>	29	4%	38	31%	-- <sup>5</sup>	-- <sup>5</sup>	12	16%	-- <sup>5</sup>	-- <sup>5</sup>	26	7%
Non-US	132	17%	8	7%	-- <sup>5</sup>	-- <sup>5</sup>	39	51%	-- <sup>5</sup>	-- <sup>5</sup>	168	42%
<b>Total</b>	<b>789</b>	<b>100%</b>	<b>122</b>	<b>100%</b>	<b>56</b>	<b>100%</b>	<b>77</b>	<b>100%</b>	<b>12</b>	<b>100%</b>	<b>397</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>4</sup> Ninety-nine percent of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands and <1% were born in Guam.

<sup>5</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data as of 1/1/12

**Table 14. Males living with HIV/AIDS on December 31, 2011 by mode of exposure and place of birth: Massachusetts<sup>1</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Undeter- mined <sup>3</sup>	
United States	5,450	84%	1,673	65%	497	82%	336	44%	190	82%	1,020	45%
PR/US Depen. <sup>4</sup>	186	3%	775	30%	70	12%	117	15%	16	7%	144	6%
Non-US	862	13%	114	4%	38	6%	316	41%	25	11%	1,088	48%
<b>Total</b>	<b>6,498</b>	<b>100%</b>	<b>2,562</b>	<b>100%</b>	<b>605</b>	<b>100%</b>	<b>769</b>	<b>100%</b>	<b>231</b>	<b>100%</b>	<b>2,252</b>	<b>100%</b>

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

<sup>3</sup> Ninety-six percent of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data as of 1/1/12

**Table 15. MSM<sup>1</sup> diagnosed with HIV infection by race/ethnicity and place of birth: Massachusetts<sup>2</sup>, 2008–2010**

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino	
Place of Birth	N	%	N	%	N	%
United States	457	92%	101	83%	56	40%
PR/US Depen. <sup>3</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	27	19%
Non-US	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	58	41%
<b>Total</b>	<b>495</b>	<b>100%</b>	<b>121</b>	<b>100%</b>	<b>141</b>	<b>100%</b>

<sup>1</sup> Includes primary reported mode of exposure as male-to-male sex (MSM)<sup>2</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.<sup>3</sup> PR/US Depen. = Puerto Rico/US Dependency; 99% of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands and <1% were born in Guam.<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data as of 1/1/12

**Table 16. MSM<sup>1</sup> living with HIV/AIDS on December 31, 2011 by race/ethnicity and place of birth: Massachusetts<sup>2</sup>**

	White Non-Hispanic		Black Non-Hispanic		Hispanic/Latino	
MSM	N	%	N	%	N	%
US	4,350	94%	709	84%	322	36%
PR/US Depen. <sup>3</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	174	20%
Non-US	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	-- <sup>4</sup>	389	44%
<b>Total</b>	<b>4,623</b>	<b>100%</b>	<b>843</b>	<b>100%</b>	<b>885</b>	<b>100%</b>

<sup>1</sup> Includes primary reported mode of exposure as male-to-male sex (MSM)<sup>2</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.<sup>3</sup> PR/US Depen. = Puerto Rico/US Dependency; 96% of people living with HIV/AIDS who were born in a US Dependency were born in Puerto Rico, <1% were born in the US Virgin Islands, and 3% were born in an unknown dependency.<sup>4</sup> Numbers less than 5 for populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding); Data as of 1/1/12

**Technical Notes:**

Tables 17–20 include data reported by Massachusetts residents through anonymous telephone interviews from 2001 to 2010. This ongoing random-digit-dial telephone survey, the Behavioral Risk Factor Surveillance System (BRFSS), covers a broad range of topic areas (including risk related to sexual activity) and is part of a CDC-funded national survey program.

<b>Table 17. Percent of males ages 18–64<sup>1</sup> years by sex of sexual partner(s) during the past 12 months: Massachusetts, 2001–2010</b>			
<b>Males ages 18–64</b>			
<b>Year</b>	<b>Same-Sex/ Both Sexes</b>	<b>Opposite Sex Only</b>	<b>N</b>
2001	4.3%	95.7%	1,528
2002	8.5%	91.5%	952
2003	7.2%	92.8%	894
2004	9.4%	90.6%	977
2005	4.9%	95.1%	834
2006	5.4%	94.6%	1,217
2007	6.5%	93.6%	841
2008	5.2%	94.8%	1,305
2009	5.9%	94.1%	992
2010	6.1%	93.9%	1,010
<sup>1</sup> Sexually active in past year			
Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS)			

**Table 18. Condom use at last sexual encounter<sup>1</sup> among males ages 18–64<sup>2</sup> years reporting same-sex partner (or opposite- and same-sex partners)<sup>3</sup>: Massachusetts, 2001–2010**

Year	Used Condom (%)	Did not Use Condom (%)	Total (N) <sup>4</sup>
2001	37.5%	62.5%	64
2002	46.0%	54.0%	81
2003	39.0%	61.0%	63
2004	41.8%	58.2%	91
2005	55.6%	44.4%	39
2006	46.9%	53.1%	56
2007	31.7%	68.3%	54
2008	34.4%	65.6%	68
2009	31.4%	68.6%	59
2010	44.3%	55.7%	62

<sup>1</sup> Includes oral, vaginal, or anal sex (with either a male or female partner) but not masturbation

<sup>2</sup> Sexually active in past year

<sup>3</sup> During the past 12 months

<sup>4</sup> Annual number of male respondents reporting same sex partner

Note: Caution should be used in interpreting these results as the effective sample size is small and confidence intervals are wide. There are no significant differences between any years in the percent who used a condom at last intercourse

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2001–2010

**Table 19. Percent of males ages 18–64<sup>1</sup> years reporting same-sex partner (or opposite- and same-sex partners)<sup>2</sup> by race/ethnicity: Massachusetts, 2009–2010**

Race/Ethnicity:	Males Reporting Same-Sex Partner	
	N	%
White (Non-Hispanic)	1,665	4.2%
Black (Non-Hispanic)	105	1.9%
Hispanic/Latino	144	9.9%
Asian/Pacific Islander	43	1.6%
Other/Undetermined	41	1.2%
<b>Total</b>	<b>2,028</b>	<b>4.4%</b>

<sup>1</sup> Sexually active in past year

<sup>2</sup> During the past 12 months

Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2009–2010



**Table 20. Number of sexual partners in the past year and condom use at last sexual encounter among males ages 18–64<sup>1</sup> reporting same-sex partner (or opposite- and same-sex partners)<sup>2</sup> compared to male respondents reporting only opposite-sex partner<sup>2</sup> by: Massachusetts, 2009–2010**

	<b>Males Reporting Same-Sex Partner or Opposite- and Same- Sex Partners</b>	<b>Males Reporting Only Opposite-Sex Partner</b>
<b>Number of Sexual Partners:</b>	<b>%</b>	<b>%</b>
1 partner	66.8%	88.4%
2 partners	18.6%	5.7%
3 or more partners	14.7%	5.9%
<b>Total N</b>	<b>115</b>	<b>1,888</b>
<b>Condom Use:</b>	<b>%</b>	<b>%</b>
Yes	37.7%	25.0%
No	62.3%	75.0%
<b>Total N</b>	<b>121</b>	<b>1,901</b>
<sup>1</sup> Sexually active in past year		
<sup>2</sup> During the past 12 months		
Data Source: Massachusetts Behavioral Risk Factor Surveillance System (BRFSS), 2009–2010		

**Technical Notes:**

Tables 21–23 include data reported by students in randomly selected Massachusetts public high schools every odd year from 1993 to 2011. This anonymous survey, the Youth Risk Behavior Survey (YRBS), is administered by the Massachusetts Department of Elementary and Secondary Education in collaboration with the Centers for Disease Control and Prevention and focuses on risk behaviors that may affect the health and/or safety of high school students.

**Table 21. Percentage of sexually active male respondents by sex of sexual partner(s) and year: Massachusetts Youth Risk Behavior Survey, 1997–2011<sup>1</sup>**

Year	Same-Sex/ Both Sexes		Opposite-Sex	
	Total N <sup>2</sup>	%	Total N <sup>2</sup>	%
1997	69	6.6%	941	93.4%
1999	89	7.0%	1,169	93.0%
2001	63	5.1%	1,080	94.9%
2003	59	6.1%	931	93.9%
2005	79	8.0%	881	92.0%
2007	70	8.0%	843	92.0%
2009	70	7.5%	802	92.5%
2011	66	7.5%	743	92.5%

<sup>1</sup> A random sample of high schools is selected for participation each year, data presented do not represent cohorts followed over time

<sup>2</sup> Total N = total number of respondents by sex of partner (unweighted). The number of respondents for each question varies from year to year

Data Source: Massachusetts Department of Elementary and Secondary Education, Youth Risk Behavior Survey (YRBS), 1997–2011

**Table 22. Sexual behavior as reported among male respondents, Youth Risk Behavior Survey (YRBS): Massachusetts, 2011**

	Sex of Partner			
	Opposite-Sex		Same-Sex/ Both Sexes	
By Behavior:	Total N <sup>2</sup>	% <sup>1</sup>	Total N <sup>2</sup>	% <sup>1</sup>
Ever had sexual intercourse <sup>3</sup>	669	77.4%	50	70.3%
Sexual intercourse before age 13	666	9.9%	50 <sup>5</sup>	18.8% <sup>5</sup>
4 or more lifetime sexual intercourse partners	663	21.8%	49 <sup>5</sup>	36.7%
4 or more sexual intercourse partners in last 3 months	666	4.0%	50 <sup>5</sup>	14.6% <sup>5</sup>
Alcohol/drugs used at last intercourse <sup>4</sup>	353	27.4%	24 <sup>5</sup>	56.4%
Condom used at last intercourse <sup>4</sup>	346	65.8%	24 <sup>5</sup>	43.9%
Ever been diagnosed with any STD	732	2.1%	66 <sup>5</sup>	4.8% <sup>5</sup>
Ever injected illegal drugs	741	3.0%	64 <sup>5</sup>	14.6% <sup>5</sup>

<sup>1</sup> % = percent of total responding "yes" to specified question

<sup>2</sup> N = total number of respondents (unweighted) by sex of partner for each question. The number of respondents for each question varies because some survey participants do not answer all questions

<sup>3</sup> Among males who reported any sexual contact with opposite sex partner, same sex partner, or both

<sup>4</sup> Among males reporting sexual intercourse in the past three months

<sup>5</sup> This estimate may be unreliable due to a Relative Standard Error of greater than 30%, interpret with caution

Data Source: Massachusetts Department of Elementary and Secondary Education, Youth Risk Behavior Survey (YRBS), 2011

**Table 23. Percentage of Massachusetts Youth Risk Behavior Survey (YRBS) male respondents reporting condom use at last sexual intercourse<sup>1</sup> by year and sex of partner: Massachusetts, 1993–2011**

Year	Opposite-Sex		Same-Sex/ Both Sexes		Total	
	Total N <sup>2</sup>	%	Total N <sup>2</sup>	%	Total N <sup>2</sup>	%
1993	384	58.5%	24	42.3%	409	57.4%
1995	519	60.3%	28	40.0%	623	59.9%
1997	480	65.4%	34	45.5%	517	64.2%
1999	542	64.4%	44	39.1%	589	62.6%
2001	506	63.6%	27	18.5%	553	61.6%
2003	395	62.0%	27	29.6%	424	60.3%
2005	403	72.7%	36	56.6%	442	71.6%
2007	392	65.0%	27	38.5%	419	63.4%
2009	367	68.0%	41	47.0%	409	65.7%
2011	346	65.8%	24	43.9%	373	64.5%

<sup>1</sup> Among youth reporting sexual intercourse in the past three months

<sup>2</sup> Total N = total number of respondents by sex of partner (unweighted). The number of respondents for each question varies from year to year.

Data Source: Massachusetts Department of Elementary and Secondary Education, Youth Risk Behavior Survey (YRBS), 1993–2011

**Table 24. Reported infectious syphilis cases that were among men who have sex with men (MSM): Massachusetts, 2001–2011**

Year	Number of Cases among MSM	Total Number of Cases	Proportion of Cases among MSM
2001	52	105	50%
2002	117	208	56%
2003	178	260	68%
2004	146	209	70%
2005	159	222	72%
2006	156	218	71%
2007	184	268	69%
2008	302	369	82%
2009	293	377	78%
2010	382	464	82%
2011	363	500	73%

Data Source: MDPH Division of STD Prevention

**Table 25. Reported infectious syphilis cases among men who have sex with men by HIV status and year of diagnosis: Massachusetts, 2001–2011**

Year	HIV-Positive		HIV-Negative/ Unknown Serostatus		Total
	N	%	N	%	N
2001	6	12%	46	88%	52
2002	49	42%	68	58%	117
2003	73	41%	105	59%	178
2004	58	40%	88	60%	146
2005	83	52%	76	48%	159
2006	74	47%	82	53%	156
2007	89	48%	95	52%	184
2008	124	41%	178	59%	302
2009	119	41%	174	59%	293
2010	147	38%	235	62%	382
2011	151	42%	212	58%	363

Data Source: MDPH Division of STD Prevention

**Table 26. Reported AIDS cases by exposure mode and year of diagnosis: Massachusetts, selected years, 1985–2009<sup>1</sup>**

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>2</sup>		Undeter- mined <sup>3</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
1985	140	62%	33	15%	11	5%	8	4%	12	5%	7	3%	14	6%	225
1990	459	44%	339	32%	43	4%	73	7%	55	5%	16	2%	65	6%	1,050
1995	411	31%	540	41%	62	5%	158	12%	33	2%	31	2%	91	7%	1,326
2001	169	24%	199	29%	29	4%	110	16%	13	2%	68	10%	110	16%	698
2002	167	25%	188	28%	23	3%	113	17%	10	1%	57	8%	123	18%	681
2003	145	24%	176	29%	20	3%	84	14%	7	1%	64	11%	102	17%	598
2004	178	27%	164	25%	21	3%	98	15%	12	2%	63	9%	132	20%	668
2005	183	28%	175	27%	20	3%	91	14%	4	1%	51	8%	131	20%	655
2006	211	33%	120	19%	17	3%	98	15%	6	1%	75	12%	106	17%	633
2007	168	32%	108	20%	14	3%	76	14%	10	2%	52	10%	100	19%	528
2008	131	31%	76	18%	19	5%	48	11%	4	1%	44	11%	97	23%	419
2009	148	35%	79	19%	11	3%	55	13%	3	1%	37	9%	94	22%	427
2010	109	28%	79	20%	10	3%	61	15%	6	2%	47	12%	82	21%	394

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk and those lost to follow-up.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

**Table 27. Deaths among persons reported with HIV/AIDS by exposure mode and year of death: Massachusetts<sup>1</sup>, 2001–2010**

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX <sup>2</sup>		Undeter- mined <sup>3</sup>		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2001	85	21%	210	51%	19	5%	27	7%	5	1%	17	4%	48	12%	411
2002	74	20%	195	54%	15	4%	33	9%	9	2%	10	3%	25	7%	361
2003	66	17%	192	50%	17	4%	46	12%	8	2%	9	2%	45	12%	383
2004	65	19%	169	50%	18	5%	30	9%	7	2%	11	3%	37	11%	337
2005	56	18%	159	51%	15	5%	35	11%	2	1%	18	6%	27	9%	312
2006	63	20%	158	50%	18	6%	28	9%	3	1%	16	5%	27	9%	313
2007	64	23%	124	44%	25	9%	28	10%	6	2%	12	4%	24	8%	283
2008	55	20%	124	45%	15	5%	26	9%	4	1%	12	4%	39	14%	275
2009	39	15%	135	51%	8	3%	29	11%	1	<1%	15	6%	36	14%	263
2010	51	22%	111	48%	11	5%	15	6%	4	2%	7	3%	33	14%	232

<sup>1</sup> Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

<sup>2</sup> Includes female sex with male of unknown HIV status or risk. This category is limited to females.

<sup>3</sup> Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12